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File: DWPI

May 20, 1981

DERWENT-ACC-NO: 1981-48826D

DERWENT-WEEK: 198127

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TITLE: Water soluble resorcin co-condensn. resin mfr., used as wood adhesive - by reacting phenol(s) with formaldehyde in presence of sulpho:methylating agent, then reacting with resorcin

PATENT-ASSIGNEE:

ASSIGNEE

SUMITOMO CHEM CO LTD

CODE

SUMO

PRIORITY-DATA: 1979JP-0134779 (October 18, 1979)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 56057815 A

May 20, 1981

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INT-CL (IPC): C08G 8/28; C09J 3/16

ABSTRACTED-PUB-NO: JP56057815A

BASIC-ABSTRACT:

Process for mfg. resorcin co-condensation resin with excellent water solubility. The process comprises reacting phenols with formaldehyde in the presence of sulphomethylating agent until resin liq. viscosity (viscosity measured at 25 deg.C with 37% formalin used as aldehyde) reaches 0.1-3 poise and then, reacting resorcin with the reaction product with molar ratio of phenols to resorcin 0.3/0.7-0.95/0.05 that of total of phenols and resorcin to formaldehyde 1/0.6-1/1.5 and that of the sulphomethylating agent to formaldehyde 0.02/1-0.15/1.

The resorcin co-condensation resin shows excellent water solubility even at less than pH 8 and as the resin liq. does not increase viscosity even when formaldehyde generating agent such as paraformaldehyde, hexamethylene tetramine etc. is added widely used. When the resin liq. is used as adhesive for wood, it does not damage lignin due to neutrality of the resin liq. and adhesive strength is stable with time passage.

TITLE-TERMS: WATER SOLUBLE RESORCIN CO CONDENSATION RESIN MANUFACTURE WOOD ADHESIVE REACT PHENOL FORMALDEHYDE PRESENCE SULPHO METHYLATION AGENT REACT RESORCIN

DERWENT-CLASS: A21 A81 G03

CPI-CODES: A05-C02; A10-E08C; A12-A04; G03-B02E1;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0004 0230 1277 1355 1365 1517 1778 2002 2020 2148 2152 2155 2178 2198

Key Serials: 0004 0230 1277 1355 1365 1517 1778 2002 2020 2148 2152 2155 2178 2198  
2511 2564 2575 2659 2671 2682 2729 2836

Multipunch Codes: 011 038 04& 080 140 180 213 214 217 218 224 231 240 344 346 357  
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Documents, starting with Document:

1

**Display Format:** FULL

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CLIPPEDIMAGE= JP356057815A  
PAT-NO: JP356057815A  
DOCUMENT-IDENTIFIER: JP 56057815 A  
TITLE: PREPARATION OF RESORCINOL CO-CONDENSATION RESIN

PUBN-DATE: May 20, 1981

INVENTOR-INFORMATION:

NAME

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HORIUCHI, HIROSHI  
KITAYAMA, SHINICHIRO  
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ASSIGNEE-INFORMATION:

NAME

SUMITOMO CHEM CO LTD

COUNTRY

N/A

APPL-NO: JP54134779

APPL-DATE: October 18, 1979

INT-CL\_(IPC): C08G008/28; C09J003/16

ABSTRACT:

PURPOSE: To obtain a resin having improved water-solubility in neutral or weakly acidic range, improved electric properties and durability, by reacting a phenol with formaldehyde in the presence of an agent for sulfomethylation, followed by reacting the reaction product with resorcinol.

CONSTITUTION: (A) A phenol is reacted with (B) formaldehyde in the presence of (C) an agent for sulfomethylation (e.g., sodium sulfite, etc.), for example, 37wt% formalin as the ingredient B is reacted until the viscosity of the resin solution reaches  $0.1 \sim 3$  poise (preferably  $0.3 \sim 2$  poise), to give a reaction product, which is reacted with (D) resorcinol to prepare the desired resin. In the reaction, a molar ratio of the ingredient A to D is  $0.3/0.7 \sim 0.95/0.05$ , a molar ratio of the ingredients (A+D) to B is  $1/0.6 \sim 1/1.5$  (preferably  $1/0.75 \sim 1/1.2$ ), and a molar ratio of C to B is